

FIRST NAMED APPLICANT

SERIAL NUMBER ... FILING DATE

## UNITED STATES SEPARTMENT OF COMMERCE Patent and Trademark Office

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ATTORNEY DOCKET NO.

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	ART	UNIT	PAPER NUMBER	
		212	35	
	DATE MAI	LED:	01/24/85	
This is a communication from the examiner in charge of your application.				
COMMISSIONER OF PATENTS AND TRADEMARKS				
This application has been examined Responsive to communication filed on		This action	is made final.	
,				
ortened statutory period for response to this action is set to expire 3 month(s),	days from the	date of this	letter.	
ure to respond within the period for response will cause the application to become abandoned.	35 U.S.C. 133			
I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:				
Notice of References Cited by Examiner, PTO-892.	tent Drawing, P	TO <b>-</b> 948.		
Notice of Art Cited by Applicant, PTO-1449  4. Notice of info	ormal Patent Ap	plication, F	Form PTO-152	
. Information on How to Effect Drawing Changes, PTO-1474 6.				
II SUMMARY OF ACTION				
Claims 1/8, 120 - 122 2 124 - 128		are pending	in the application.	
<del>-</del> ,				
•		•		
. Claims	t	ave been c	ancelled.	
. Claims	{	ire allowed		
. Claims 1/8, 120-122, \$ 124-128	{	ire rejected	ı <b>.</b>	
. Claims		ire objected	1 10.	
. Claimsare	e subject'to res	triction or e	lection requirement.	
<ul> <li>This application has been filed with informal drawings which are acceptable for examina matter is indicated.</li> </ul>	tion purposes u	ntil such ti	me as allowable subjec	
Allowable subject matter having been indicated, formal drawings are required in response	e to this Office	action.		
The corrected or substitute drawings have been received on	These drawing	s are 🔲 a	cceptable;	
not acceptable (see explanation).				
not acceptable (see explanation).	neet(s) of drawi	ngs filad A	n	
	neet(s) of drawi explanation).	ngs, filed o	n	
not acceptable (see explanation).  The proposed drawing correction and/or the proposed additional or substitute shapes.	xplanatioπ). ved disap	proved (see	explanation). Howev	

12. Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received

13. [ ] Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in

\_ ; filed on \_

14. [ ] Other

EFFECT DRAWING CHANGES", PTO-1474.

been filed in parent application, serial no. \_\_\_

accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The continuing application must contain a specific reference to the parent application(s) in the specification.

This application filed under 37 CFR 1.60 lacks the necessary reference to the prior application. A statement reading "This is a continuation of application Serial No. 555,426, filed November 23, 1983" should be entered following the title of the invention or as the first sentence of the specification. Also, the present status of all parent applications should be included.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The new title should reflect the crux of the invention, not just the general field of invention.

The references cited in the parent applications remain of record in this application.

Claims 118, 120-122 and 124-128 remain in the case.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office

action:

A person shall be entitled to a patent unless
(b) the invention was patented or described in
a printed publication in this or a foreign
country or in public use or on sale in this
country, more than one year prior to the date

of application for patent in the United States.

Claims 120 and 121 are rejected under 35 U.S.C. 102(b) as being anticipated by Rhoads.

Applicant is again reminded that claims are given ther broadest reasonable interpretation. The "external load" is construed to mean the output circuit connected between modes A and D of figure 2A.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though
the invention is not identically
disclosed or described as set forth
in section 102 of this title, if the
differences between the subject matter
sought to be patented and the prior art
are such that the subject matter as a
whole would have been obvious at the
time the invention was made to a person
having ordinary skill in the art to
which said subject matter pertains.
Patentability shall not be negatived by
the manner in which the invention was
made.

Claims 118 and 122 are rejected under 35 U.S.C. 103 as being unpatentable over Rhoads in view of the British reference or Walden and Locklair.

The claims differ from figure 2A of Rhoads by calling for a series connected resonant LC circuit

having as frequency "not higher" than the fundamental inverter AC output frequency.

But, the British reference and Walden show it is old to place a series resonant LC circuit across the load terminals of an inverter. In the British reference the LC circuit is tuned to (not higher than) the fundamental frequency of the inverter. In Walden, the inverter may operate either above or below the resonant frequency of the LC circuit, operation on either side of resonance producing expected results.

Thus, it would have been obvious to use a series resonant circuit across modes A and D of Rhoads and to couple a load such as a discharge lamp thereto. And to design the LC circuit coupled to a lamp, as in Walden, to have a natural resonant frequency that is "not higher" or lower than the inverter AC frequency for purpose of regulation is taught by Locklair, figure 2.

In summary, therefore, the broadly recited elements in the broadly recited combination of the claims would have been obvious over the collective teachings of Rhoads, the British reference, or Walden and Locklair.

Claims 120 and 121 are rejected under 35 U.S.C. 103 as being unpatentable over Rhoads in view of Walden.

Construing the recitation of an "external load" in the narrow sense intended by applicant, Walden shows it is old to use a resonant LC circuit across the output nodes of a bridge inverter and to connect a discharge lamp acays the resonating capacitor. Moreover, whether the capacitor is connected to the right or left node of the circuit is patentably immaterial.

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Claims 127 and 128 are rejected under 35 U.S.C. 102(b) as being anticipated by Locklair.

Taking claim 127 as exemplary (claim 128 is even broader), Locklair shows a self-oscillating inverter 11-39, output terminals 41, series resonant circuit 45,46 connected acors terminals 41 by means of diode bridge 49, connect means 41 or 57,59 for connecting a load (across terminals 41 or resistor 55 across 57,59) in circuit with LC circuit 45,46, and feedback means T2, 35, 49, 63, 65, 67 for causing the inverter to self-oscillate at a frequency higher than the natural resonant frequency of the LC circuit (figure 2).

Claims 124-126 are rejected under 35 U.S.C. 102(b) as being anticipated by Locklair.

The recitations relating to a gas discharge lamp are given no patentable weight since the lamp is not part of the claimed combination. In other words, all that the claims generally require is an inverter with output terminals. In this sense the claims are anticipated by Locklair.

Any inquiry concerning this communication should be directed to William H. Beha at telephone number 703-557-5052.

Beha/kmd

703-557-5052

1-22-85

William H. Beha

EXAMINER